

# **Nuclear Material Stabilization and Disposition (RL-0011)**

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*HC-13MD glovebox*



*Model 60 Shipping containers*

## Overview

This section addresses work in Project Baseline Summary RL-0011, *Nuclear Material Stabilization and Disposition*.

NOTE: Unless otherwise noted, all information contained herein is as of the end of September 2007.

## Top FY 2007 Accomplishments

### Disposition the Plutonium Finishing Plant (PFP) Facility

- Combined 13 Material Balance Areas (MBAs) in 234-5Z down to two.
- Completed internal cleanout of 15 234-5Z gloveboxes.
- Completed 241-Z demolition activities four years ahead of Tri-Party Agreement due date.
- Deployed a fixed camera and crawler into the 216-Z-9 crib to inspect the slab and equipment.
- 232-Z Plutonium Incinerator Facility Project was selected as Project of the Year by the Columbia River Basin chapter of the Project Management Institute.

## Notable September Accomplishments

### Disposition the Plutonium Finishing Plant (PFP) Facility

- Formal notification was received from DOE-RL directing de-inventory of PFP.
- Completed Non-Destructive Assay (NDA) of the model 60 shipping containers stored in outside waste storage area awaiting processing for Environmental Restoration Disposal Facility (ERDF) disposal.
- Initiated an implementation plan to allow interim storage of 9975s in 234-5Z.
- Completed internal cleanout of HC-13MD, awaiting completion of waste disposition.
- Completed pulsar glovebox demobilization.
- Process equipment removal from HA-15 is approximately sixty percent complete.
- Complete removal of water walls in HA-23C.

## FY 2007 Funds vs. Actuals (\$M)

	September 2007 Actual Funding	FY 2007 Actual Costs	Delta
Nuclear Materials Stabilization and Disposition	\$ 98.6	\$ 91.9	\$ 6.7

## Schedule/Cost Performance (\$M)

Nuclear Materials Stabilization & Disposition	Budgeted Cost of Work Scheduled	Budgeted Cost of Work Performed	Actual Cost of Work Performed	Schedule Variance \$	Schedule Variance %	Cost Variance \$	Cost Variance %	Budget At Completion (FY07/CTD)
Current Period (Month)	\$23.9	\$11.5	\$9.0	-\$12.4	-52.0%	\$2.5	21.8%	\$107.9
Cumulative to Date (FY 2004 - Present)	\$583.9	\$584.4	\$547.2	\$0.5	0.1%	\$37.3	6.4%	\$698.2

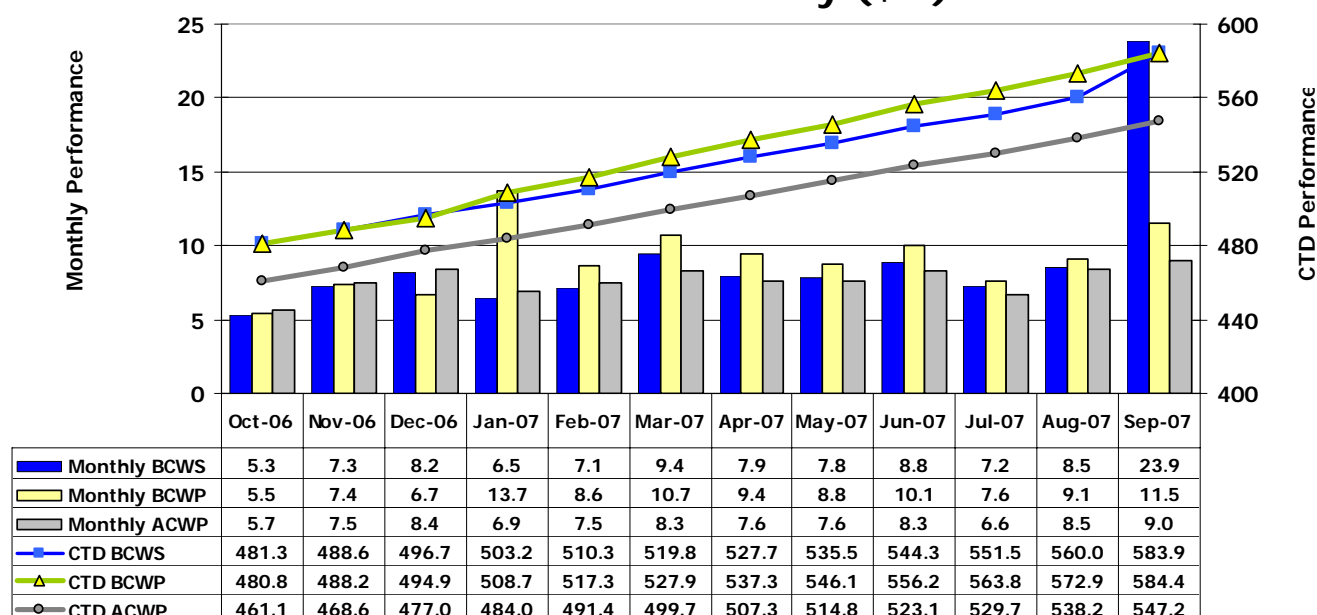
Numbers are rounded to the nearest \$0.1M.

**CTD Schedule Performance: (\$0.5M/0.1%):** The positive schedule variance is due to accelerated progress on planning and glovebox cleanout in the 234-5Z facility, and associated apportioned support activities.

**CTD Cost Performance: (+\$37.3M/+6.4%):** The positive cost variance is due to:

- Work efficiencies in 234-5Z glovebox cleanout and apportioned support activities.
- Favorable solid waste disposition cost.
- Completion of roof repair, MICON recabling, and special nuclear material (SNM) stabilization activities under cost.
- Efficiencies in miscellaneous materials disposition.
- Reduced resource requirements for Special Nuclear Material (SNM) De-inventory and Disposition Planning.
- Reduced overhead costs/allocations.

## Performance Analysis CTD and Monthly (\$M)



## Milestone Achievement

Number	Milestone Title	Type	Due Date	Actual Date	Forecast Date	Status/ Comments
TRP-06-533	RCRA Closure Activities Completed For Each 241Z Cell With RCRA Permitted Tanks	PI	10/30/06	10/26/06		Complete
TRP-06-537	234-5Z Roof Repair Completed	PI	3/31/07	9/28/06		Complete
TRP-07-501	Complete Internal Cleanout of Eight Gloveboxes by September 30, 2007	PI	9/30/07	8/21/07		Complete
TRP-07-502	Operator Certification and Professional Engineer Certification on the RCRA 241-Z Closure Submitted to DOE	PI	3/30/07	12/8/06		Complete
TRP-07-503	241-Z Transitioned to Demolition Ready Condition	PI	6/30/07	3/29/07		Complete
TRP-07-504	241-Z Demolished to Slab-On-Grade	PI	9/30/07	6/8/07		Complete
TRP-08-004	Removal Action Work Plan for the 216-Z-9 Crib Complex Submitted to DOE	PI	9/30/08		9/30/08	On Schedule
TRP-08-005	Implement the Necessary Lay-up Activities to Place PFP in a Safe Configuration Until D&D Resumes	PI	9/30/08		9/30/08	On Schedule
TRP-08-025	Complete 216-Z-9 Facility Condition Analysis by 30 September 2008	PI	9/30/08		11/30/07	Ahead of Schedule
TRP-08-026	Complete additional FY 2008 lay-up work scope per the Lay-up Plan	PI	9/30/08		9/30/08	On Schedule
TRP-08-027	Complete internal cleanout of ten (10) 234-5Z gloveboxes/conveyers	PI	9/30/08		TBD	On Hold
TRP-08-028	Complete internal cleanout of one (1) PRF glovebox	PI	9/30/08		TBD	On Hold
TRP-11-502	Complete Closure of the PFP 241-Z TSD Unit	PI	9/30/11	2/22/07		Complete
TRP-11-503	Complete Transition and Dismantlement of 241-Z Waste Treatment Facility	PI	9/30/11	6/8/07		Complete